ENGLISH

KH 805

The Neumann KH 805

Based on the excellent acoustical performance of the KH 810, the KH 805 is the optimal choice to be used in stereo applications, for example in combination with the KH 120 or KH 310.

The KH 805 has a unique 2.1/0.1 Bass manager which enables it to be used in many different applications. There are four routing modes to ensure maximum flexibility. Fourth order crossovers and adaptable acoustical controls allow for seamless system integration, and the bass management function can be remotely controlled.

Uses:

• Bass extension for loudspeakers down to 18 Hz
• Increasing the maximum SPL of loudspeakers by up to 8 dB
• Decreasing harmonic and intermodulation distortion of loudspeakers
• Reproducing the LFE channel
• Reproducing the "Sub" signal of a bass managed multichannel source
• Making a Plane Wave Bass Array™ system
• Working as an extension for KH 810, KH 870 and KH 805 subwoofer systems

Solid cabinet construction

▶ Well-braced cabinet with extremely low tuning frequency minimizes unwanted resonances

▶ Long excursion, low distortion, magnetically shielded 10" driver

▶ Bass compression is minimized using large capacity low turbulence dual reflex ports

▶ Latest high efficiency, low heat dissipation power amplification techniques

▶ Electronics can be remote located (REK 3) for reduced cabling and ease of installation and use

2.0 / 0.1 Bass Manager

▶ Can be used for stereo and multichannel applications

▶ Bass management with 4th order, 80 Hz crossover: compatible with typical systems

▶ Bass manager can be bypassed using a simple switch or footswitch

Installation flexibility

▶ 4-mode operation for many application needs

▶ Sum output for multiple subwoofer systems: higher SPL, decreased system distortion, Plane Wave Bass Array™ (PWBA™) to reduce lateral room modes

▶ Extensive Acoustical Controls: Low cut, parametric EQ, phase, input/output level

▶ Switchable mains voltage

▶ Input Ground Lift

▸ Acoustics

	KH 805
−3 dB free field frequency response	18 … 300 Hz, ± 3 dB
Pass band free field frequency response	19 … 300 Hz, ± 2 dB
Self-generated noise	<20 dB(A) at 10 cm
Sine wave output with a THD < 0.5 % at 1 m	95 dB SPL (>40 Hz)
Max. SPL in half space at 3% THD (averaged between 40 and 90 Hz)	110.7 dB SPL
Max. SPL with pink noise in half space at 1m, linear	112 dB SPL

▸ Electronics

Amplifier, total cont. (peak) output power*	160 W (200 W)
Controller design	Analog, active
Main channel crossover frequency	80 Hz
Crossover slope	24 dB / oct.
Equalization: Low cut	30 Hz, 0 … −12 dB
Parametric Equalizer:	Bypassable
Gain	+4 … −12 dB
Frequency	20 … 120 Hz
Q	1 … 8
Time of flight phase adjustment	0 … − 315° in 45° steps
Bass Management Remote Control	Bass management on/off optional via a standard foot switch on a 6.3 mm jack
Protection circuitry	Excursion and Thermo Limiters
Infrasonic filter frequency; slope	6.5 Hz; 12 dB / oct.

### ▸ Analog Inputs and Outputs

Input/Output channels	2.0 or 0.1 / 2 + 1
Impedance, electrically balanced	XLR, 13 kΩ
Input sensitivity	94, 100, 108, 114 dB SPL at 1 m for a 0 dBu input level
CMRR	>56 dB @ 15 kHz
Interchannel isolation (1 kHz), level matching	<−95 dB, ±0.1 dB
Dynamic range, THD+N	119 dB(A), better than 0.001%
Signal routing modes	Right, LFE 120 Hz, Wide, Daisychain
Gain Control	+2 … −12 dB

▸ Displays and Mains Power

Displays and indicators: power on	Green LED
limit / clip	Red LED
bass management active	Green LED
Mains power	220 … 240 V~ or 100 … 120 V~, switchable
Power consumption – Idle / Full output	14 W / 280 W

▸ Mechanics

Height x width x depth	360 x 330 x 645 mm (14.2” x 13” x 25.4”)
Internal net volume / External volume	41.5 liters / 76.6 liters
Weight	26.0 kg (57.2 lbs)
Drivers, magnetically shielded: Woofer	265 mm (10”)
Cabinet surface finish, color: custom	Painted, Metallic Anthracite (RAL 7021)
Baffle cover	Included metal grille

* THD+N < 0.1 % with limiter deactivated

Frequency Response KH 805 + KH 120

dB
10
0
-10
-20
-30
20 50 100 500 1k 5k 10k 20k Hz

Maximum SPL KH 805 + KH 120 *

dB SPL
110
100
90
80
70
20 50 100 500 1k 5k 10k 20k Hz

* at 1% / 3% THD

Parametric EQ

dB
0
−5
−10
−15
5 20 100 500 1k kHz

Low Cut Filter

dB
0
−5
−10
−15
5 20 100 500 1k kHz
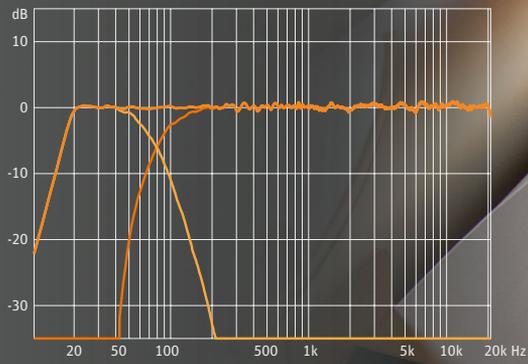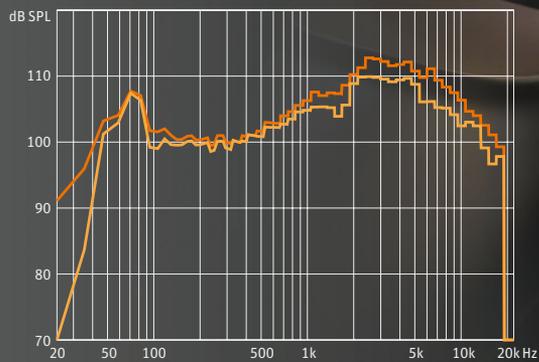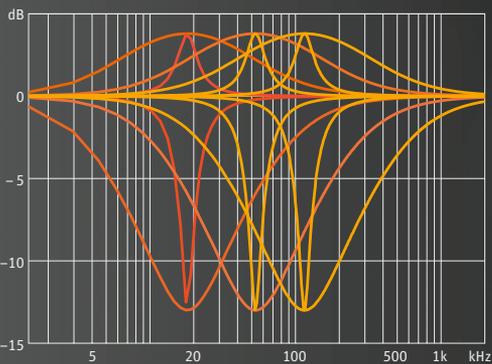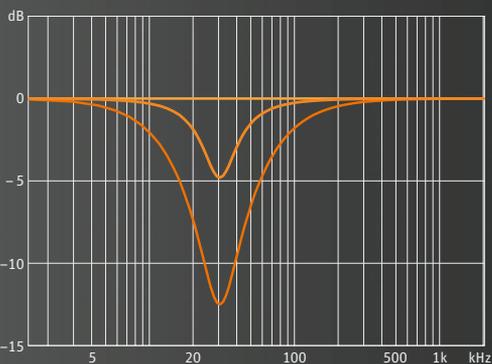
Accessories

Accessories

▶ REK 3 Remote Electronic Kit
to locate the electronics panel up to
30 m (90') away from the subwoofer
cabinet. A separately purchased cable
is required.

▶ FO 810 Flight Case
for use when storing or regularly
transporting a KH 805/810 subwoofer
between locations

▶ Order Info

Product	Art. Number
KH 805 A G 10" Active Studio Subwoofer with 2.0 / 0.1 Bass Manager, Metallic Anthracite	506770

Please refer to the website ▶ www.neumann.com for additional technical information. Furthermore, look for the extensive range of accessories that turn individual products into a complete monitoring system. Detailed mechanical drawings are also available together with remote electronics kits.